

## SUBSITUTE SPECIFICATION

# 5 TITLE OF THE INVENTION:

Nectarine Tree 'S 6816'

## **CROSS REFERENCE TO RELATED APPLICATIONS:**

None

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## **PRIORITY CLAIM:**

This application claims priority of U.S. Provisional patent application Ser. No. 60/404,217 filed August 15, 2002.

# 15 STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT:

None

#### LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED:

20. Prunus persica L. Batsch.

#### **VARIETY DENOMINATION:**

'S 6816'

#### **BACKGROUND OF THE INVENTION**

The new nectarine tree 'S 6816' was developed by the Institut National de la Recherche Agronomique (INRA) at Angers, France, as part of a controlled breeding program. 'S 6816' was one of several seedlings resulting from a cross of [(Kiang-Si x Independence) x Summergrand] x Marsun (all unpatented). 'S 6816' was asexually propagated by budding at Angers, France, and has been observed to remain true to type over successive asexually propagated generations.

## **BRIEF SUMMARY OF THE INVENTION**

'S 6816' was selected for its suitability as a commercial nectarine tree cultivar. Fruit of the 'S 6816' cultivar matures in late July in central Washington state, and is notable for its aromatic and sweet yellow flesh. The fruit of 'S 6816' is distinguishable from that of the parent varieties by its flat shape and smooth skin. The characteristics which distinguish 'S 6816' from its parents are set forth in Table 1.

Table 1

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| Variety      | Fruit Type | Shape | Flesh Color |
|--------------|------------|-------|-------------|
|              |            |       |             |
| S 6817       | Nectarine  | Flat  | Yellow      |
| Kiang-Si     | Peach      | Flat  | Yellow      |
| Independence | Nectarine  | Round | Yellow      |
| Summergrand  | Nectarine  | Round | Yellow      |
| Marsun       | Peach      | Round | Yellow      |

This variety is distinguishable over related variety 'S 6817' (U.S. Patent Application Ser. No. 10/642,441) by its earlier maturity date and smaller and sweeter fruit.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS:

FIG. 1 shows branches and blossoms of the new cultivar;

FIG. 2 shows a tree of the new cultivar;

FIG. 3 shows leaves of the new cultivar;

FIG. 4 shows a leaf, a stone, and a portion of a fruit of the new cultivar;

FIG. 5 shows fruit of the new cultivar; and

FIG. 6 shows a sectioned fruit of the new cultivar.

#### **DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:**

The following is a detailed botanical description of 'S 6816,' a new and distinct nectarine tree, based on observations made during the 2004 growing season, of specimens planted at Parker, Washington, USA, in 1999. The described trees were grown on 'Lovell' (not patented) rootstock. All colors are described according to the Royal Horticultural Society Color Chart. It should be understood that the botanical and analytical characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

20 Tree

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Size

Large, width 2.2 m wide, height 3.4 m

Vigor

Strong

Habit

Upright

Trunk

Diameter 31 cm at soil level; very rough; overcolor grey

201D; undercolor grey 175A; lenticels prominent, 0.3 to

0.5 cm, yellow 159A

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Branches

Smooth, greyed red 181A, internode length 3.1 to 3.8 cm,

lateral branch diameter 1.8 cm, length 46.2 cm (previous

season growth)

Leaves

Young shoot - length of stipule

Medium

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Size

Length 10.5 cm; 4.0 cm

Ratio length to width

Medium

Shape

Lanceolate, base rounded, apex acuminate, recurved, cross

section concave

Color

Upper surface green 146A, lower surface green N144A,

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upper venation color green 154D

Texture

Smooth

Margin

Serrate to serrulate

Petiole

Size

Length 1.5 cm, diameter 0.2 cm

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Color

Green 154D

Glands

Present, usually 2, reniform

**Flowers** 

Bud Length 0.9 to 1.1 cm, round, smooth, hardy, red-purple 59A, tip pink 62A March 18 at Parker, Washington Bud burst

Showy, fragrant, 1 to 4 per cluster

Bloom period March 18 to April 7 at Parker, Washington

Quantity 5; length 1.8 to 2.1 cm, width 1.3 to 1.5 cm; Petals

margins ruffled, overlapping; shape obovate to rotund;

color pink 69A

Length 0.5 to 0.6 cm; width 0.4 to 0.5 cm; color red-purple Sepals

59A

Diameter 3.5 to 3.7 cm Reproductive organs Stamen white 155D, quantity 39, length 1.0 to 1.3 cm;

anther length 0.5 cm, brown 199A; filament 0.9 to 1.2 cm;

pistil 0.9 to 1.0 cm, smooth, yellow 3A

Scarce, yellow 1A 15 Pollen

Fruit

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Flower type

Flower size

Small, diameter 70 mm, height 4.0 cm Size

Shape (ventral view) Broad oblate

Shape of pistil end Weakly depressed

20 Symmetry Symmetric

> Prominence of suture Weak

Depth of stalk cavity Shallow, 0.5 cm Width of stalk cavity

Broad, 2.8 cm

Skin

Color: ground color orange-red 34C, over color red-purple

59A; thin, smooth, tenacious

Pubescence

Absent

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Firmness of flesh

Soft

Ground color of flesh

Yellow-orange 17C

Anthocyanin coloration directly under skin Absent or very weakly expressed

Anthocyanin coloration of flesh

Absent or very weakly expressed

Anthocyanin coloration around stone Present, red-purple 59C

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Pit cavity

Diameter 3.0 cm, color red-purple 59C

Texture of flesh

Not fibrous

Sweetness

Very sweet, 12° Brix

Acidity

Low

#### Stone

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Size

Small, diameter 3.0 cm

Shape in lateral view

Oblate

Color

Red-purple 59C

Relief of surface

Small pits, ridges

Tendency of splitting at peak harvest Absent or very low

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Adherence to flesh

Absent (freestone)

Time of maturity for consumption Early, late July in Parker, Washington

Tendency to preharvest drop

Absent or very weak

Resistance to diseases and pests None observed

Heat and cold tolerance Tolerant in area tested (USDA Zone 6)